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Gaor

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(54) **VEHICLE LOCATION ASSISTING DEVICE**

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G01D 13/00 (2006.01)

(52) **U.S. Cl.**
CPC ***G01D 13/00*** (2013.01)

(58) **Field of Classification Search**
CPC G01D 13/00
See application file for complete search history.

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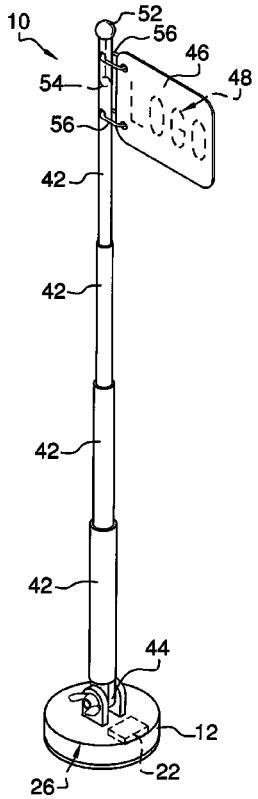
Primary Examiner — David V Bruce

(57) **ABSTRACT**

A vehicle location assisting device attaches to a top surface of a vehicle to assist a user in identifying the location of the vehicle. The device includes a base configured for positioning on a top surface of a vehicle. A magnet is coupled to the base. The magnet is configured to magnetically attach the base to the top surface of the vehicle. A pole has a top end and a bottom end. The bottom end of the pole is attached to the base. A panel is coupled to the pole proximate the top end of the pole.

17 Claims, 3 Drawing Sheets



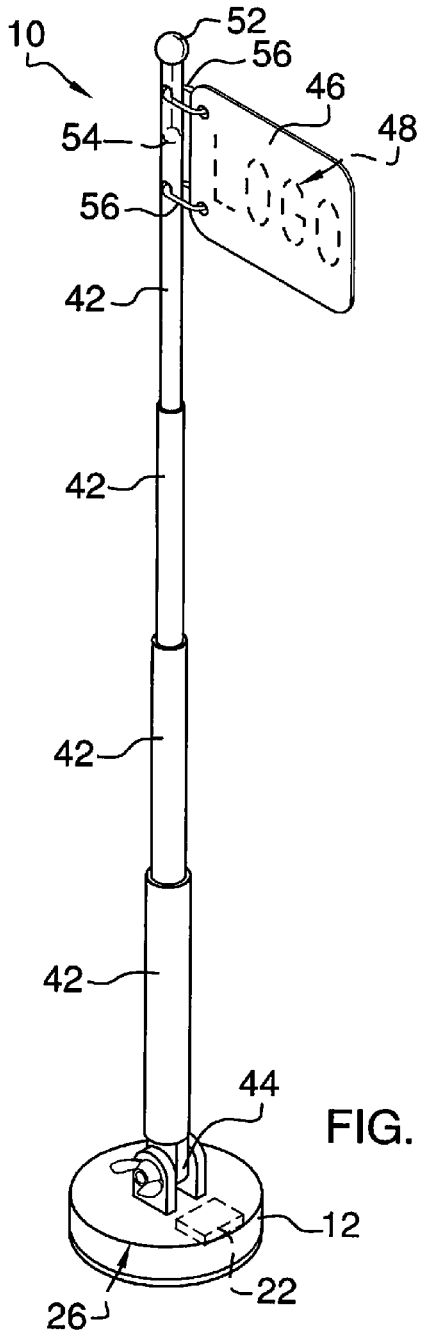

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FIG. 1

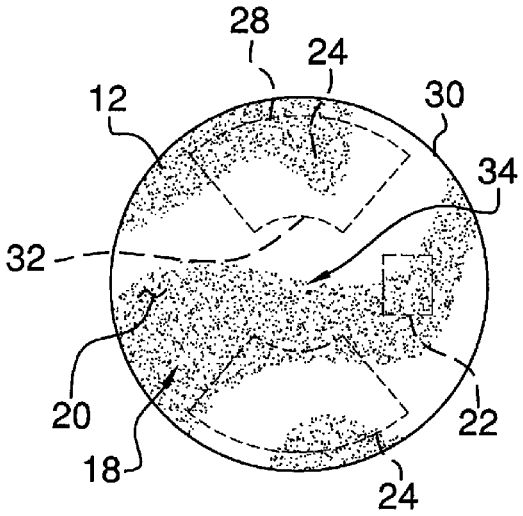
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FIG. 2

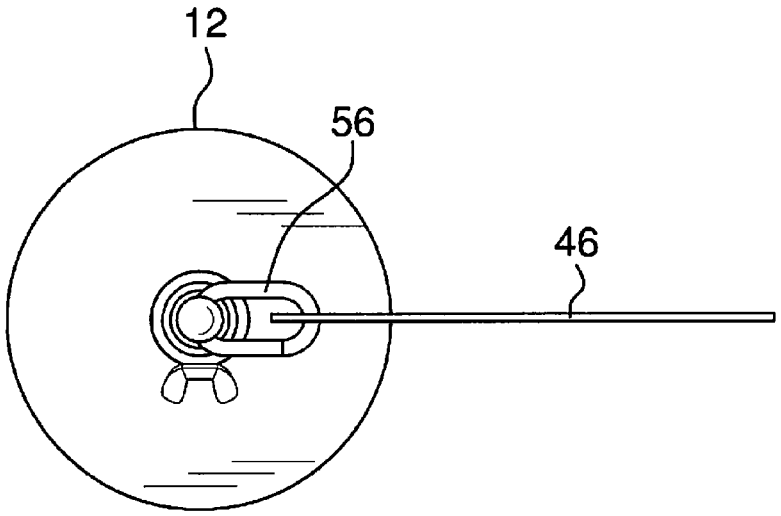

FIG. 3

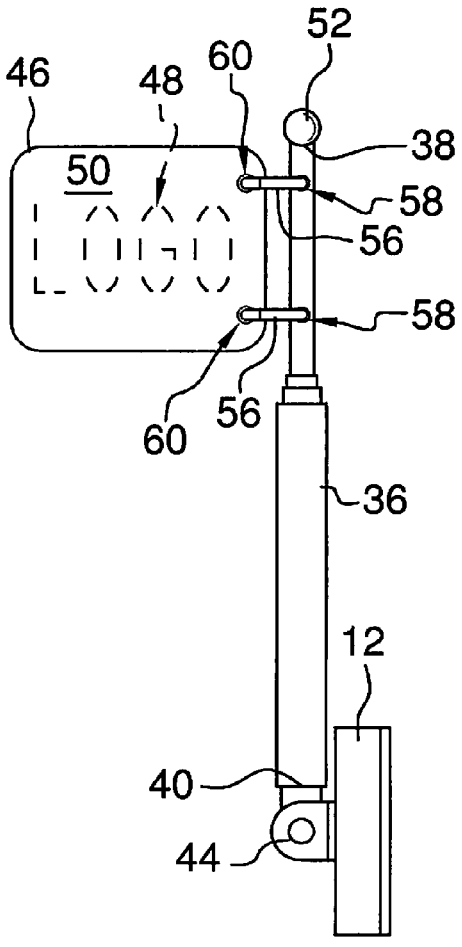

FIG. 4

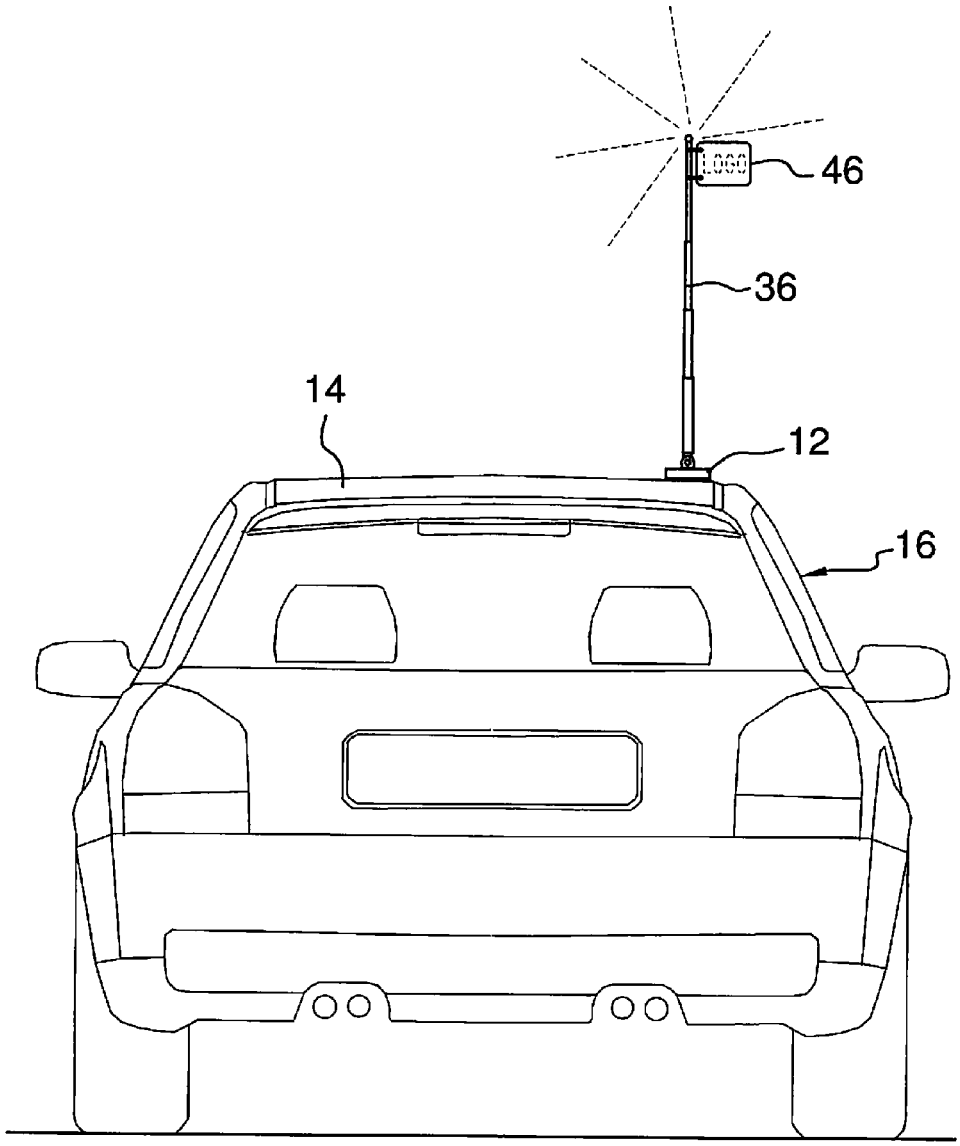

FIG. 5

VEHICLE LOCATION ASSISTING DEVICE

BACKGROUND OF THE DISCLOSURE

Field of the Disclosure

The disclosure relates to vehicle location devices and more particularly pertains to a new vehicle location device for attaching to a top surface of a vehicle to assist a user in identifying the location of the vehicle.

SUMMARY OF THE DISCLOSURE

An embodiment of the disclosure meets the needs presented above by generally comprising a base configured for positioning on a top surface of a vehicle. A magnet is coupled to the base. The magnet is configured to magnetically attach the base to the top surface of the vehicle. A pole has a top end and a bottom end. The bottom end of the pole is attached to the base. A panel is coupled to the pole proximate the top end of the pole.

There has thus been outlined, rather broadly, the more important features of the disclosure in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the disclosure that will be described hereinafter and which will form the subject matter of the claims appended hereto.

The objects of the disclosure, along with the various features of novelty which characterize the disclosure, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

BRIEF DESCRIPTION OF THE DRAWINGS

The disclosure will be better understood and objects other than those set forth above will become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

FIG. **1** is a top front side perspective view of a vehicle location assisting device according to an embodiment of the disclosure.

FIG. **2** is a bottom view of an embodiment of the disclosure.

FIG. **3** is a top view of an embodiment of the disclosure.

FIG. **4** is a side view of an embodiment of the disclosure.

FIG. **5** is a front view of an embodiment of the disclosure in use.

DESCRIPTION OF THE PREFERRED EMBODIMENT

With reference now to the drawings, and in particular to FIGS. **1** through **5** thereof, a new vehicle location device embodying the principles and concepts of an embodiment of the disclosure and generally designated by the reference numeral **10** will be described.

As best illustrated in FIGS. **1** through **5**, the vehicle location assisting device **10** generally comprises a base **12** configured for positioning on a top surface **14** of a vehicle **16**. A bottom surface **18** of the base **12** is comprised of a non-slip material **20**, such as felt, rubber or the like to prevent scratching of the top surface **14** of the vehicle **16**. A tracking chip **22** is coupled to the base **12** wherein a location of the vehicle **16** is determinable when the base **12** is positioned on the top surface **14** of the vehicle **16**.

A magnet **24** is coupled to the base **12**. The magnet **24** is configured to magnetically attach the base **12** to the top surface **14** of the vehicle **16**. The magnet **24** is positioned within an interior space **26** of the base **12**. The magnet **24** may be one of a plurality of magnets **24**. The magnet **24** may have a convexly arcuate outer edge **28** positioned proximate a perimeter surface **30** of the base **12** and a concavely arcuate inner edge **32** positioned proximate a center **34** of the base **12**.

A pole **36** has a top end **38** and a bottom end **40**. The bottom end **40** of the pole **36** is attached to the base **12**. The pole **36** may be comprised of a plurality of tubular sections **42** wherein each of the tubular sections **42** is slidably positionable within an adjacently positioned one of the tubular sections **42** for selectively adjusting a length of the pole **36**. A swivel connection member **44** is coupled to the bottom end **40** of the pole **36**. The swivel connection member **44** couples the bottom end **40** of the pole **36** to the base **12** such that the pole **36** is selectively swivelable relative to the base **12** and is done so in a conventional manner. A panel **46** is coupled to the pole **36** proximate the top end **38** of the pole **36**. The panel **46** may comprise a flag that is flexible and moves with the wind. Alternatively, the panel **46** may be rigid. Indicia **48** is positioned on a front surface **50** of the panel **46** wherein the indicia **48** is configured to assist a user in identifying and locating the vehicle **16**. A light emitter **52** may be coupled to the top end **38** of the pole **36** to further assist in locating the vehicle **16**. A power supply **54** is coupled to the pole **36**. The power supply **54** may comprise at least one rechargeable battery. The power supply **54** is electrically coupled to the light emitter **52** for providing power to the light emitter **52**.

A plurality of clips **56** couples the panel **46** to the pole **36**. The clips **56** releasably couple the panel **46** to the pole **36**. A plurality of apertures **58** is positioned in the pole **36** and a plurality of holes **60** is positioned in the panel **46**. Each of the apertures **58** corresponds to an associated one of the holes **60** such that each of the clips **56** is extendable through an associated one of the apertures **58** and an associated one of the holes **60** to retain the panel **46** on the pole **36**. A distance between the base **12** and the light emitter **52** may be between approximately 120.0 cm and 180.0 cm. Each of the tubular sections **42** may have a length between 10.0 cm and 30.0 cm.

In use, as stated above and shown in the Figures, the panel **46** is attached to the pole **36** using clips **56**. The pole **36** is extended to a desired length. The bottom surface **18** of the base **12** is attached to the top surface **14** of the vehicle **16** using magnets **24**. The device **10** assists a user in identifying the location of the vehicle **16** in a crowded parking lot since the user must merely locate the panel **46** from a distance to determine the vehicle's **16** location. The pole **36** can be swiveled approximately ninety degrees relative to the base **12** to place the pole **36** at a desired angle relative to the base **12**. The light emitter **52** assists the user in finding the vehicle **16** in low-light conditions. The tracking chip **22** can also be used to help determine the vehicle's **16** location. The pole **36** can be removed from the top surface **14** of the vehicle **16** and retracted for compact storage of the device **10**.

With respect to the above description then, it is to be realized that the optimum dimensional relationships for the parts of an embodiment enabled by the disclosure, to include variations in size, materials, shape, form, function and manner of operation, assembly and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by an embodiment of the disclosure.

Therefore, the foregoing is considered as illustrative only of the principles of the disclosure. Further, since numerous

modifications and changes will readily occur to those skilled in the art, it is not desired to limit the disclosure to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the disclosure. In this patent document, the word "comprising" is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article "a" does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be only one of the elements.

I claim:

1. A vehicle location assisting device comprising:

a base configured for positioning on a top surface of a vehicle;

a magnet coupled to said base, said magnet being configured to magnetically attach said base to the top surface of the vehicle;

a pole having a top end and a bottom end, said bottom end of said pole being attached to said base;

a panel coupled to said pole proximate said top end of said pole; and

a tracking chip coupled to said base wherein a location of the vehicle is determinable when said base is coupled to the top surface of the vehicle.

2. The device of claim **1**, further comprising said magnet being positioned within an interior space of said base.

3. The device of claim **1**, further comprising said magnet being one of a plurality of said magnets.

4. The device of claim **1**, further comprising said magnet having a convexly arcuate outer edge positioned proximate a perimeter surface of said base and a concavely arcuate inner edge positioned proximate a center of said base.

5. The device of claim **1**, further comprising a bottom surface of said base being comprised of a non-slip material.

6. The device of claim **1**, further comprising a plurality of clips coupling said panel to said pole.

7. The device of claim **1**, further comprising said panel comprising a flag.

8. The device of claim **1**, further comprising a swivel connection member coupled to said bottom end of said pole, said swivel connection member coupling said bottom end of said pole to said base such that said pole is selectively swivelable relative to said base.

9. The device of claim **1**, further comprising said pole being comprised of a plurality of tubular sections, each of said tubular sections being slidably positionable within an adjacently positioned one of said tubular sections for selectively adjusting a length of said pole.

10. The device of claim **1**, further comprising said panel being rigid.

11. The device of claim **1**, further comprising indicia being positioned on a front surface of said panel wherein said indicia is configured to assist a user in identifying and locating the vehicle.

12. A vehicle location assisting device comprising:

a base configured for positioning on a top surface of a vehicle;

a magnet coupled to said base, said magnet being configured to magnetically attach said base to the top surface of the vehicle;

a pole having a top end and a bottom end, said bottom end of said pole being attached to said base;

a panel coupled to said pole proximate said top end of said pole;

a plurality of clips coupling said panel to said pole; and

a plurality of apertures being positioned in said pole and a plurality of holes being positioned in said panel, each of said apertures corresponding to an associated one of said holes such that each of said clips is extendable through an associated one of said apertures and an associated one of said holes to retain said panel on said pole.

13. The device of claim **6**, further comprising said clips releasably coupling said panel to said pole.

14. The device of claim **1**, further comprising a light emitter coupled to said pole.

15. The device of claim **14**, further comprising said light emitter being coupled to said top end of said pole.

16. The device of claim **14**, further comprising a power supply being coupled to said pole, said power supply being electrically coupled to said light emitter for providing power to said light emitter.

17. A vehicle location assisting device comprising:

a base configured for positioning on a top surface of a vehicle, a bottom surface of said base being comprised of a non-slip material;

a tracking chip coupled to said base wherein a location of the vehicle is determinable when said base is coupled to the top surface of the vehicle;

a magnet coupled to said base, said magnet being configured to magnetically attach said base to the top surface of the vehicle, said magnet being positioned within an interior space of said base, said magnet being one of a plurality of said magnets, said magnet having a convexly arcuate outer edge positioned proximate a perimeter surface of said base and a concavely arcuate inner edge positioned proximate a center of said base;

a pole having a top end and a bottom end, said bottom end of said pole being attached to said base, said pole being comprised of a plurality of tubular sections, each of said tubular sections being slidably positionable within an adjacently positioned one of said tubular sections for selectively adjusting a length of said pole;

a swivel connection member coupled to said bottom end of said pole, said swivel connection member coupling said bottom end of said pole to said base such that said pole is selectively swivelable relative to said base;

a panel coupled to said pole proximate said top end of said pole, said panel comprising a flag, said panel being rigid;

indicia being positioned on a front surface of said panel wherein said indicia is configured to assist a user in identifying and locating the vehicle;

a plurality of clips coupling said panel to said pole, said clips releasably coupling said panel to said pole;

a plurality of apertures being positioned in said pole and a plurality of holes being positioned in said panel, each of said apertures corresponding to an associated one of said holes such that each of said clips is extendable through an associated one of said apertures and an associated one of said holes to retain said panel on said pole;

a light emitter coupled to said top end of said pole; and

a power supply being coupled to and positioned within said pole, said power supply comprising at least one rechargeable battery, said power supply being electrically coupled to said light emitter for providing power to said light emitter.

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